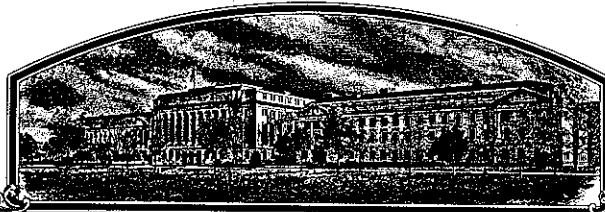


No.

8200016



Re-issued  
showing orig.  
date

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Bailey Seed Farms, Inc. & BSF Ag Research**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Bailey 4287'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 17th day of June in the year of our Lord one thousand nine hundred and eighty-two.

Attest:

*Kenneth H. Evans*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*J. R. B. L.*  
Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION		FORM APPROVED: OMB NO. 0581-0005  No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).	
<b>APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE</b> <i>(Instructions on reverse)</i>			
1. NAME OF APPLICANT(S) BAILEY SEED FARMS, INC. BSF AG RESEARCH (Bruce A. Bailey)		2. TEMPORARY DESIGNATION Sel. No. 27823	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 178 Rt. #6 Portland, Indiana 47371		5. PHONE (Include area code) 219-726-9388	
6. GENUS AND SPECIES NAME Triticum aestivum		7. FAMILY NAME (Botanical) Gramineae	
8. KIND NAME Wheat (Common)		9. DATE OF DETERMINATION June 10, 1980	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) BSF AG is an associate to Bailey Seeds Bailey Seed Farms, Inc. is an Indiana Corporation.		12. DATE OF INCORPORATION 1950	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Indiana		12. DATE OF INCORPORATION 1950	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS BAILEY SEED FARMS, INC. & BSF AG RESEARCH (Bruce A. Bailey)      Same as above			
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED			
a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)		c. <input type="checkbox"/> Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)	
b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement		d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of the Variety	
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> Foundation <input checked="" type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified	
18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No			
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No			
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT Wayne Bailey Bailey Seed Farms, Inc.		DATE October 31, 1981	
SIGNATURE OF APPLICANT Bruce A. Bailey BSF AG RESEARCH		DATE October 31, 1981	
FORM LMGS-470 (9-81) (Edition of 1-78 is obsolete)			



## BAILEY SEED FARMS, INC.

HYBRID SEED CORN • SMALL GRAINS

Attachment 13A

### Exhibit A

Line selection 27823 or variety designation Bailey 4287 is a single plant selection from the variety Pike (Sava x Stoddard) x (Sowon 92/Burt x Stoddard). The variety is uniform and stable in that:

- 1.) All plants are remaining true to original selection with all obvious gene markers considered, no segregation has occurred.
- 2.) Phenol test at the 2 hr. & 4 hr. reading indicated all seeds reacted identically with no variation in color.



## BAILEY SEED FARMS, INC.

HYBRID SEED CORN • SMALL GRAINS

Attachment 13B

### Exhibit B

Selection no. 27823 or variety designation Bailey 4287 is both unique and novel in that head size is approximately 4-5 cm. longer than variety selected from (Pike). Selection 27823 has long awns, while Pike is awnless, and at time of selection plant height was approximately 4 cm. shorter than the mean. Selection no. 27823 most closely resemble the variety Hart. The variety differs in that Hart has a head length of 8 cm. and width of approximately 9 mm. while 27823 (Bailey 4287) has head length of 12 cm. and width of 13 mm. Awns on the variety Hart extend vertically while awns on 27823 extend nearly horizontal when mature and dry. Please see attachment enclosed showing protein levels between Hart and 27823. Also, picture enclosed for visual verification.

R. R. 6 — Box 178, PORTLAND, INDIANA 47371 • Phone (219) 726-9388

— Member Indiana Crop Improvement Assn. —

— Member Western Seedsmen Assn. —

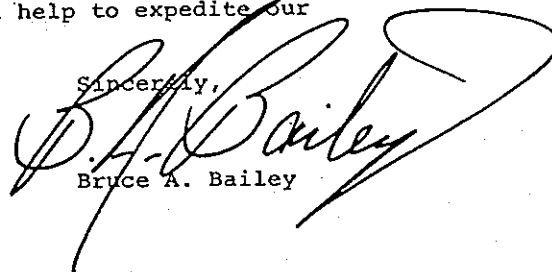
Protein test was obtained from Dr. Ron Allerton,  
Burgess & Niple Limited, Columbus, Ohio, and results  
are as follows:

Variety Hart - 11.08% Protein - 3 assays

Variety Bailey 4287 - 11.66% Protein - 3 assays

Thank you for your patience and consideration as  
I hope this information will help to expedite our  
application.

Sincerely,

A large, stylized handwritten signature in dark ink, appearing to read 'B. A. Bailey', is written over the typed name.

Bruce A. Bailey

BAB/me

Enclosure

R. R. 6 — Box 178, PORTLAND, INDIANA 47371 • Phone (219) 726-9388

— Member Indiana Crop Improvement Assn. —

— Member Western Seedsmen Assn. —

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION  
BELTSVILLE, MARYLAND 20705

FORM APPROVED: OMB NO. 40-R3822

EXHIBIT C  
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

BSF Ag Research & Bailey Seed Farms, Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

R.R.#6 Box 178  
Portland, Indiana 47371

FOR OFFICIAL USE ONLY

PVPO NUMBER

8200016

VARIETY NAME OR TEMPORARY  
DESIGNATION

BAILEY 4287

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g., 089 or 09 ) when number is either 99 or less or 9 or less.

1. KIND:

1 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

2 1 = SPRING 2 = WINTER 3 = OTHER (Specify) 1 1 = SOFT 3 = OTHER (Specify)  
2 = HARD

2 1 = WHITE 2 = RED 3 = OTHER (Specify)

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

FIRST FLOWERING  LAST FLOWERING

4. MATURITY (50% Flowering):

00 NO. OF DAYS EARLIER THAN 1 1 = ARTHUR 2 = SCOUT 3 = CHRIS  
00 NO. OF DAYS LATER THAN 1 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (From soil level to top of head):

CM. HIGH  
00 CM. TALLER THAN 1 1 = ARTHUR 2 = SCOUT 3 = CHRIS  
00 CM. SHORTER THAN 1 4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (See reverse):

2 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHUR COLOR:

1 = YELLOW 2 = PURPLE

8. STEM:

Anthocyanin: 1 = ABSENT 2 = PRESENT  Waxy bloom: 1 = ABSENT 2 = PRESENT  
 Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT  Internodes: 1 = HOLLOW 2 = SOLID  
 NO. OF NODES (Originating from node above ground)  CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

Anthocyanin: 1 = ABSENT 2 = PRESENT  Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

Flag leaf at booting stage: 1 = ERECT 2 = RECURVED  Flag leaf: 1 = NOT TWISTED 2 = TWISTED  
3 = OTHER (Specify):  Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT  Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT  
 MM. LEAF WIDTH (First leaf below flag leaf)  CM. LEAF LENGTH (First leaf below flag leaf)

11. HEAD:

1 Density: 1 = LAX 2 = DENSE

2 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE  
4 = OTHER (Specify) 1/2/1/82

4 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNEO

2 Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED  
5 = BROWN 6 = BLACK 7 = OTHER (Specify):

1 2 CM. LENGTH 1 3 MM. WIDTH 1/2/1/81

12. GLUMES AT MATURITY:

3 Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.)

3 Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)

1/2/1/81 Shoulder: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED  
shape: 4 = SQUARE 5 = ELEVATED 6 = APICULATE

3 Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE 1/2/1/81

13. COLEOPTILE COLOR:

1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

1 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL 1/2/1/81

2 Brush: 1 = SHORT 2 = MEDIUM 3 = LONG 1/2/1/81

3 Phenol reaction: 1 = IVORY 2 = FAWN 3 = LT. BROWN  
(See instructions): 4 = BROWN 5 = BLACK 1/2/1/81

3 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) 1/2/1/81

0 7 MM. LENGTH 0 3 MM. WIDTH 3 1 GM. PER 1000 SEEDS 1/2/1/81

17. SEED CREASE:

1 Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI' 1/2/1/81

2 Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI' 1/2/1/81

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

0 STEM RUST (Races) 0 LEAF RUST (Races) 0 STRIPE RUST (Races) 0 LOOSE SMUT

0 POWDERY MILDEW 0 BUNT 0 OTHER (Specify)

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

0 SAWFLY 0 APHID (Bydv.) 0 GREEN BUG CEREAL LEAF BEETLE

0 OTHER (Specify) HESSIAN FLY RACES: GP A B C D E F G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Pike	Seed size	Pike
Leaf size	Pike	Seed shape	Pike
Leaf color	Pike	Coleoptile elongation	Pike
Leaf carriage	Pike	Seedling pigmentation	Pike

#### INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (a) L.W. Briggles and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Wallis, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

FORM LPS 470-B (3-79) (Reverse)

8200016

